120

RANGE SCIENCE - BACHELOR OF SCIENCE IN AGRICULTURE

The following course work prepares you for study and management of rangelands through an integrated ecological approach with special emphasis on rangeland plants, livestock, wildlife, soils and watersheds. The course work is also well designed for those who want to continue study in graduate school. Any undergraduate student majoring in Range Science must earn a grade of C- or higher in Range Science (RGSC prefix) courses to satisfy degree requirements. Students earning a D or F in a Range Science (RGSC prefix) course will be expected to repeat that course until the student earns a grade of C- or higher.

Requirements

Students must complete all University degree requirements, which include: General Education requirements, Viewing a Wider World requirements, and elective credits to total at least 120 credits with 48 credits in courses numbered 300/3000 or above. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Area I: Communicatio	ns	10
English Compositi	on - Level 1 ¹	
English Compositi	on - Level 2 ¹	
Oral Communicati	on ¹	
ACOM 1130G	Effective Leadership and Communication in Agriculture	
	5G Introduction to Communication	
Area II: Mathematics	2	
MATH 1220G	College Algebra	3
Area III/IV: Laboratory	Sciences and Social/Behavioral Sciences	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4
Select one from the	following:	3
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Principles of Microeconomics	
Area V: Humanities		
PHIL 1145G	Philosophy, Law, and Ethics	3
or PHIL 2110G	Introduction to Ethics	
Area VI: Creative and	Fine Arts ¹	3
General Education Ele	ective	
BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and Evolution	3
Viewing A Wider Wo	rld ³	6
Departmental/Colleg	ge Requirements	
Range Science Core		
RGSC 1110	The Range Science Profession	1
RGSC 2110	Introduction to Rangeland Management	3
RGSC 316	Rangeland Plants	3
RGSC 317	Rangeland Communities	3
RGSC 318	Watershed Management	3

RGSC 357 Grass Taxonomy and Identification 3 RGSC 402 Seminar 1 or RGSC 402 H Range Science Seminar RGSC 440 Rangeland Resource Ecology Lab 1 RGSC 440 L Rangeland Resource Ecology Lab 1 RGSC 452 Vegetation Measurements for Rangeland Assessment 1 RGSC 452 Vegetation Measurements for Rangeland Assessment 1 RGSC 460 Rangeland and Natural Resource Planning and 4 Management 1 Non-Departmental Requirements (in addition to Gen.Ed/VWW) Other Required Courses 1 A ST 311 Statistical Applications 3 ANSC 1170 Introduction to Animal Metabolism 3-4 or CHEM 2115 Survey of Organic Chemistry and Laboratory 1 BIOL 2110G Principles of Biology. Cellular and Molecular 1 Biology 1 EPWS 314 Plant Physiology 3 FWCE 2110 Principles of Fish and Wildlife Management 3 Select one from the following: 4 GEOG 381 Cartography and GIS or FWCE 471 GIS for Natural Resource Scientists A 300/400-level GIS Course 1 SOIL 2110L Introduction to Soil Science 2 SOIL 2110L Introduction to Soil Science 2 SOIL 2110L Introduction to Soil Science 2 SOIL 2110L Introduction to Soil Science Laboratory 1 SOIL 472 Soil Morphology and Classification 4 Natural Resource Management 1 Choose two courses from the following: 6 AEEC 3120V Natural Resource Economics AEEC 3120V Water Resource Economics AEEC 3130V Water Resource Economics AEEC 3280 Applied Production Economics AEEC 3280 Applied Production Economics AEEC 37 ABSC 302V Forestry and Society ANSC Elective 3 ANSC 1120 Introduction to Natural Resources Management FWCE 2110 Principles of Fish and Wildlife Management FWCE 2110 Principles of Fish and Science Honors ANSC 304 Feeds and Feeding ANSC 351V Agricultural Animals of the World ANSC 422 Animal Nutrition ANSC 425 Sheep and Wool Production ANSC 426 Beef Production: Cow-Calf Management ANSC 428 Sheep and Wool Production ANSC 428 Sheep and Wool Production Electives, to bring the total credits to 120 4 Lectives, to bring the total credits to 120 4 Lectives, to bring the total credits to 120 4 Lectives, to bring the total credits to 120 4 Lectives, to bring the total	RGSC 325	Rangeland Restoration Ecology	3
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AEEC 3280 Applied Production Economics AEEC 4530 Case Studies in Food and Agribusiness Management FWCE 1110G Introduction to Natural Resources Management FWCE 2110 Principles of Fish and Wildlife Management FWCE 437 Wildlife Damage Management FWCE 437 Forestry and Society ANSC 802V Forestry and Society ANSC 1120 Introduction to Animal Science or ANSC 1120H Introduction to Animal Science Honors ANSC 304 Feeds and Feeding ANSC 351V Agricultural Animals of the World ANSC 422 Animal Nutrition ANSC 426 Beef Production: Cow-Calf Management ANSC 428 Sheep and Wool Production ANSC 458 Livestock Behavior, Welfare and Handling Second Language: (not required) Electives, to bring the total credits to 120 4 12-13	AEEC 3120V	Natural Resource Economics	
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FWCE 1110G Introduction to Natural Resources Management FWCE 2110 Principles of Fish and Wildlife Management FWCE 437 Wildlife Damage Management RGSC 302V Forestry and Society ANSC Elective 3 ANSC 1120 Introduction to Animal Science or ANSC 1120H Introduction to Animal Science Honors ANSC 304 Feeds and Feeding ANSC 351V Agricultural Animals of the World ANSC 422 Animal Nutrition ANSC 426 Beef Production: Cow-Calf Management ANSC 428 Sheep and Wool Production ANSC 458 Livestock Behavior, Welfare and Handling Second Language: (not required) Electives, to bring the total credits to 120 4 12-13	AEEC 4530		
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FWCE 437 Wildlife Damage Management RGSC 302V Forestry and Society ANSC Elective 3 ANSC 1120 Introduction to Animal Science or ANSC 1120H Introduction to Animal Science Honors ANSC 304 Feeds and Feeding ANSC 351V Agricultural Animals of the World ANSC 422 Animal Nutrition ANSC 426 Beef Production: Cow-Calf Management ANSC 428 Sheep and Wool Production ANSC 458 Livestock Behavior, Welfare and Handling Second Language: (not required) Electives, to bring the total credits to 120 4 12-13	EWCE 2110		
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	Electives, to bring the	total credits to 120	

See the General Education (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/) section of the catalog for a full list of courses

Total Credits

MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first.

- See the Viewing a Wider World (https://catalogs.nmsu.edu/nmsu/ general-education-viewing-wider-world/#viewingawiderworldtext) section of the catalog for a full list of courses
- Elective credit may vary based on prerequisites, dual credit, AP credit, double majors, and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 120 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

A Suggested Plan of Study for Students

This roadmap assumes student placement in MATH 1220G College Algebra and ENGL 1110G Composition I . The contents and order of this roadmap may vary depending on initial student placement in mathematics and English. It is only a suggested plan of study for students and is not intended as a contract. Course availability may vary from fall to spring semester and may be subject to modification or change.

First Year		
Semester 1		Credits
ENGL 1110G	Composition I	4
MATH 1220G	College Algebra	3
RGSC 1110	The Range Science Profession	1
RGSC 2110	Introduction to Rangeland Management	3
ACES 1120	Freshman Orientation	1
Area VI: Creative and	f Fine Arts ²	3
	Credits	15
Semester 2		
ACOM 1130G	Effective Leadership and Communication in Agriculture	3
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
CHEM 1121	General Supplemental Instruction I	1
Choose from one of	the following Area I courses: ²	3
ENGL 2130G	Advanced Composition	
ENGL 2210G	Professional and Technical Communication Honors ¹	
ENGL 2210H	Professional and Technical Communication Honors	
ENGL 2215G	Advanced Technical and Professional Communication	
ENGL 2221G	Writing in the Humanities and Social Science ¹	
Choose from one of the following Area IV courses: ²		3
PHIL 1145G	Philosophy, Law, and Ethics	
PHIL 2110G	Introduction to Ethics	
Elective Course		1
	Credits	15
Second Year		
Semester 1		
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory ¹	4
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4
CHEM 1122	General Supplemental Instruction II	1
Choose from one of	the following Area IV General Education Courses: 2	3

ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Principles of Microeconomics	
Elective Course		3
	Credits	15
Semester 2		
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology	4
	and Principles of Biology: Cellular and Molecular Biology Laboratory ¹	
Choose from one of th	• • • • • • • • • • • • • • • • • • • •	3-4
ANSC 1170	Introduction to Animal Metabolism (Spring	
	Only) ¹	
CHEM 2115	Survey of Organic Chemistry and Laboratory (Fall and Spring) 1	
A ST 311	Statistical Applications ¹	3
RGSC 317	Rangeland Communities (Spring Only)	3
Elective Course		2
	Credits	15-16
Third Year		
Semester 1		
RGSC 452	Vegetation Measurements for Rangeland Assessment (Fall Only) ¹	4
RGSC 316	Rangeland Plants (Fall Only)	3
RGSC 325	Rangeland Restoration Ecology (Fall Only)	3
SOIL 2110	Introduction to Soil Science	4
& 2110L	and Introduction to Soil Science Laboratory ¹	
Elective Course		2
	Credits	16
Semester 2		
RGSC 357	Grass Taxonomy and Identification (Spring Only)	3
RGSC 318	Watershed Management (Spring Only)	3
Choose from one of th	ne following:	3-4
GEOG 381	Cartography and GIS	
Any 300-level or 40	0-level GIS Course	
Choose from one of th	e following Animal Science courses:	3
ANSC 1120	Introduction to Animal Science	
ANSC 304	Feeds and Feeding	
ANSC 351V	Agricultural Animals of the World	
ANSC 422	Animal Nutrition	
ANSC 426	Beef Production: Cow-Calf Management	
ANSC 428	Sheep and Wool Production	
ANSC 458	Livestock Behavior, Welfare and Handling	
Elective Course		3
	Credits	15-16
Fourth Year		
Semester 1		
RGSC 402	Seminar	1
RGSC 440	Rangeland Resource Ecology	4
& 440 L	and Rangeland Resource Ecology Lab (Fall Only)	
SOIL 472	Soil Morphology and Classification (Fall Only) 1	4
VWW: Viewing a Wider	World Course ³	3
Choose from one of the courses:	ne following Natural Resource Management	3-4
AEEC 3110V	World Agriculture and Food Problems	
AEEC 3130V	Water Resource Economics (Spring Only)	
/12200100V		

	Total Credits	120-124
	Credits	13-14
VWW: Viewing a Wider	World Course	3
RGSC 302V	Forestry and Society	
FWCE 437	Wildlife Damage Management	
FWCE 2110	Principles of Fish and Wildlife Management	
FWCE 1110G	Introduction to Natural Resources Management	
AEEC 4530	Case Studies in Food and Agribusiness Management (Spring Only)	
AEEC 3280	Applied Production Economics (Fall Only)	
AEEC 3130V	Water Resource Economics (Spring Only)	
AEEC 3110V	World Agriculture and Food Problems (Fall Only)	
Choose from one of the courses:	e following Natural Resource Management	3-4
EPWS 314	Plant Physiology (Spring Only) 1	3
RGSC 460	Rangeland and Natural Resource Planning and Management (Spring Only)	4
Semester 2		
	Credits	16-17
Elective Course		1
RGSC 302V	Forestry and Society	
FWCE 437	Wildlife Damage Management	
FWCE 2110	Management Principles of Fish and Wildlife Management	
FWCE 1110G	Introduction to Natural Resources	
AEEC 4530	Case Studies in Food and Agribusiness Management (Spring Only)	
AEEC 3280	Applied Production Economics (Fall Only)	

These courses have prerequisites and it is the students responsibility for checking and fulfilling all course prerequisites listed for these courses.

See the General Education (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/) section of the catalog for a full list of courses.

3 See the Viewing a Wider World (https://catalogs.nmsu.edu/ nmsu/general-education-viewing-wider-world/ #viewingawiderworldtext) section of the catalog for a full list of courses.